

Title (en)

PRINT HEAD FOR DROP-ON-DEMAND INK JET PRINTING APPARATUS

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Application

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Abstract (en)

[origin: EP0260884A2] The present invention relates to a print head for a drop-on-demand ink jet printer of the type which comprises an actuator section (12) of relatively large cross section and including a plurality of electromechanical transducers (26), each formed with an ink path having an entrance end (32) and an exit end (34), an ink manifold (18), means (17) for conveying ink from said ink manifold to the entrance end of the ink path in each of said transducers, a print element section (14) having a relatively small cross section and including a plurality of nozzles (36), one nozzle for each of the transducers, and a connecting section (16) located between the actuator section (12) and the print element section (14) and including a plurality of ink paths (35, 45, 48) providing a respective ink path between the exit end of each transducer and its corresponding nozzle. According to the invention the print head is characterised in that the connecting section (16) is shaped so that it forms a fan-in section connecting the relatively large cross section actuator section to the relatively small cross section print element section and is made at least partially from a resilient material so that it forms a seal for each of the ink paths at its junctions with the actuator section and the print element section.

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